# Class Tasks A4

# Structure Testing

# Suggested Answers

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## Class Task 4.1 – Types of Test Data

- Look at the database fields given to you.
- You have been given a range of field validations and test data.
- For each field being tested, identify the type of test data being used.
- Discuss your findings with the group.
- **Time Allowed:** 10 minutes.

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## Test Data – Suggested Answers

| Database Field | Database Validation | Test Data | Test Type |
|---|---|---|---|
| fName | Is Not Null | “John” | N |
| fName | Is Not Null | “” | R |
| sName | Is Not Null | “” | R |
| sName | Len([sName])>7 | “Smith” | X |
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# Class Task 4.2 – The Student Database Structure Testing

- You have been given a partially completed database called “Student Database”.
- You have been given a range of database structure tests to carry out.
- Complete the supplied test plan for each test.
- Document your results thoroughly.
- Discuss your findings with the group.
- **Time Allowed:** 25 minutes.

You will test the structure and the validation of your relational database using suitable test data

(normal, erroneous and extreme as appropriate).

You must provide evidence of table level testing that proves:

1. a record will not be saved if the student surname is missing.
2. a record will not be saved if the student age is not 17 or 18.
3. a record will not be saved if the student does not belong to one of the two tutor groups.
4. a record will not be saved if student date of birth is before 01/01/2003.
5. a record will not save if a student email address does not contain an “@” symbol and end with “.c0m”.
6. a record will not save if a qualification name is missing.
7. a record will not be saved if the incorrect student ID is selected.
8. a record will not be saved if the incorrect grade ID is selected.

Complete the attached test log to show how you have tested the structure and validation of your

database.

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# Class Task 4.3 – The Customer Order Database Structure Testing

- You have been given a partially completed database called “Student Database”.
- You have been given a range of database structure tests to carry out.
- Complete the supplied test plan for each test.
- Document your results thoroughly.
- Discuss your findings with the group.
- **Time Allowed:** 25 minutes.

You will test the structure and the validation of your relational database using suitable test data

(normal, erroneous and extreme as appropriate).

You must provide evidence of table level testing that proves:

1. a record will not be saved if the customer surname is missing.
2. a record will not be saved if the

Complete the attached test log to show how you have tested the structure and validation of your

database.

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